

IN THE CLAIMS

Please amend the claims as follows:

1. (original) A detector arrangement for the conversion of electromagnetic radiation into electrical signals, which arrangement includes sensitive areas (D1, D2, D3, D4), each of which corresponds to a respective electrical signal, it being arranged that at least two of the sensitive areas (D1, D2) mesh with one another.

2. (original) A detector arrangement as claimed in claim 1, characterized in that the meshing of the sensitive areas (D1, D2, D3) with one another is achieved by dentation and/or interleaving.

3. (currently amended) A detector arrangement as claimed in claim 1 ~~or 2~~, characterized in that sampling properties of the sensitive areas (D1, D2, D3, D4) are defined by a respective associated sensitive surface and that meshing is realized by way of the sensitive surfaces.

4. (currently amended) A detector arrangement as claimed in ~~one of the claims 1 to 3~~ claim 1, characterized in that the sensitive areas (D1, D2, D3, D4) are formed by photodiodes or electrodes.

5. (currently amended) A detector arrangement as claimed in ~~one of the claims 1 to 4~~claim 1, characterized in that the sensitive areas (D1, D2, D3, D4) are all of the same size.

6. (currently amended) A detector arrangement as claimed in ~~one of the claims 1 to 5~~claim 1, characterized in that the shape of the sensitive areas (D1, D2, D3, D4) varies.

7. (currently amended) An imaging X-ray system which includes a detector arrangement as claimed in ~~one of the claims 1 to 6~~claim 1.

8. (original) A method for the conversion of electromagnetic radiation into electrical signals, which method includes the following steps:

- emission of electromagnetic radiation by a radiation source (RS),
- detection of the electromagnetic radiation by means of a detector arrangement which includes sensitive areas (D1, D2, D3, D4),
- conversion of the electromagnetic radiation into electrical signals, where each time one of the sensitive areas

corresponds unambiguously to a respective electrical signal, and at least two of the sensitive areas mesh with one another, and

- propagation of the electrical signals.